

SWBAT

observe properties of projectiles

Sep 4-7:31 AM

Welcome!!!

SECA CP Physics
Tuesday 8 December 2015

H. Leslie Grebe
Room C-244

Centering
(quotes)

- Show me you are passing on SchoolView, or secure phone!
- get a computer and log in!

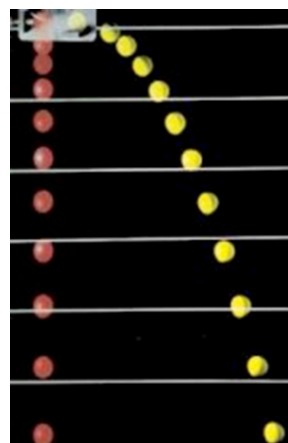
Opening Activity - Quick Write!

What conclusions did we draw about
projectiles v_x and v_y ? \rightarrow SPEEDING UP

\hookrightarrow STAYS SAME
-OR- What was hardest about this
activity?

Don't watch the clock; do what it does. Keep going.

Sam Levenson



Sep 7-7:04 AM

What we should have solid:

- Memorize our 5 vocab cards, units, vector or not, definition, formula
- Be able to answer distance vs displacement questions
- Be able to make measurements of real-life motion. Know what is likely to make timing things difficult and how to get more reliable timing results
- Be able to convert between miles and meters, between hours, minutes, and seconds
- Be able to calculate speed = dist/time and velocity = disp/time
- Know what all of the symbols in the UAM equations stand for and mean
- Be able to turn a UAM word problem into a list of knowns and unknowns
- Be able to pick the equation with those 4 things in it
- Be able to put the knowns into that equation
- (Be able to solve for the unknown)

→ PROJECTILES: v_x IS CONSTANT; $a_y = -9.8 \text{ m/s}^2$ ^{v_y CHANGES} PG 42

QW every day to review? Volunteer answers on board?

Dec 4-9:15 AM

Homework DUE WED 12/9

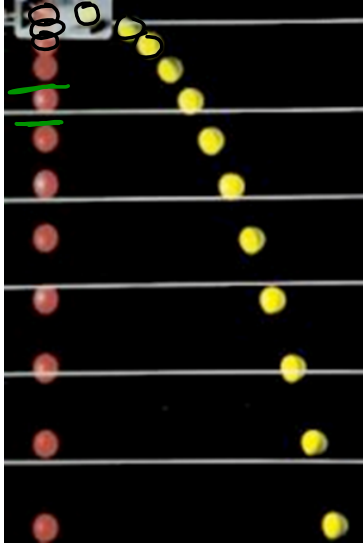
2 VIDEOS

- * FP: Introduction to Projectile Motion - pg 43
- * FP: An Introductory **Projectile Motion Problem** with an Initial Horizontal Velocity - **Part 1** of 2 - pg 45

Dec 7-8:20 AM

InterActive Notebook - Table of Contents			
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PR: DISTANCE & DISPLACEMENT	8	Hmwk: FP DISPLACEMENT	9
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PR: CONVERTING SOLUTIONS	14	Hmwk: FP CONVERSIONS	15
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Launched vs. Dropped	42	FP: INTRO TO PROJECTILE MOTION	43
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Sep 5-9:09 AM



PROJECTILES LAUNCHED

FR ↓

SPEED: y
VERTICAL

SPEED: x
HORIZONTAL
SAME

SPEED = $\frac{DIST}{TIME}$

MON

↓

↑

SIDEWAYS x

HORIZONTAL

UP/DOWN y

VERTICAL

Dec 2-8:36 AM

Experiment with Projectiles

Google "Phet projectile motion"

What conclusions can you draw???

$$90^\circ < \text{ANGLE} < 45^\circ$$

Dec 8-9:11 AM